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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 08/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	03-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	151.73 X 151.12 X 149.57	22930	**8.411**	428.5	18.7	18.9
2	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	151.03 X 150.80 X 149.71	22774	**8.429**	431.7	19.0	
3	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	151.25 X 149.62 X 150.21	22630	**8.063**	428.7	18.9	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 29/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	03-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	151.06 X 149.25 X 151.98	22546	**8.906**	530.7	23.5	23.3
2	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	149.56 X 150.17 X 151.66	22458	**8.271**	510.0	22.7	
3	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	150.70 X 149.93 X 149.10	22595	**8.860**	537.6	23.8	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Date.....
BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 20/08/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 16-08-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.34 X 149.26 X 149.73	22439	**8.411**	405.0	18.1	18.2
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.38 X 149.66 X 150.14	22356	**8.429**	406.3	18.2	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.09 X 149.75 X 149.60	22327	**8.063**	412.7	18.5	

ಸಹಾಯಕ ಆಧಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು.
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 10/09/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.59 X 150.28 X 150.39	22481	**8.906**	521.1	23.2	23.2
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.21 X 151.58 X 151.15	22920	**8.271**	518.2	22.6	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.16 X 151.87 X 150.26	22956	**8.860**	550.0	24.0	

ಸಹಾಯಕ ಅಧಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 20/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.31 X 150.37 X 150.93	22753	**8.411**	411.7	18.1	18.6
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.72 X 150.13 X 151.29	22628	**8.429**	428.7	18.9	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.84 X 150.93 X 151.16	22766	**8.063**	427.3	18.8	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಸಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 10/09/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.21 X 149.91 X 151.24	22668	**8.906**	524.1	23.1	23.1
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.37 X 151.53 X 150.95	22785	**8.271**	504.8	22.2	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.91 X 149.92 X 151.08	22474	**8.860**	536.9	23.9	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 20/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.50 X 151.07 X 149.70	22585	**8.411**	410.0	18.2	18.4
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.72 X 149.60 X 150.10	22548	**8.429**	416.4	18.5	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.48 X 151.42 X 151.32	22937	**8.063**	425.4	18.5	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 10/09/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 16-08-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.58 X 149.32 X 149.19	22484	**8.906**	526.9	23.4	22.9
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.06 X 151.35 X 151.69	22712	**8.271**	501.5	22.1	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.54 X 150.23 X 151.12	22464	**8.860**	522.2	23.2	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-10-11-19c** **Date: 20/08/2019**
Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.55 X 150.34 X 151.37	22783	**8.411**	427.0	18.7	18.5
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.29 X 149.45 X 151.65	22609	**8.429**	419.5	18.6	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.58 X 149.62 X 149.81	22678	**8.063**	415.6	18.3	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ.ಬ.ಪಂ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬ.ಬ.ಪಂ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-10-11-19c** **Date: 10/09/2019**
Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.81 X 149.09 X 151.52	22336	**8.906**	523.0	23.4	23.3
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.55 X 151.86 X 151.85	22862	**8.271**	521.3	22.8	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.89 X 151.60 X 150.33	23027	**8.860**	548.7	23.8	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 20/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.89 X 150.24 X 149.94	22519	**8.411**	414.7	18.4	18.7
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.17 X 149.26 X 151.34	22564	**8.429**	423.9	18.8	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.58 X 149.08 X 150.48	22598	**8.063**	428.3	19.0	

ಸಹಾಯಕ ಆಯುಕ್ತರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 10/09/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 16-08-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.66 X 150.77 X 151.13	22716	**8.906**	534.1	23.5	23.2
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.29 X 150.13 X 150.98	22414	**8.271**	500.2	22.3	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.54 X 151.82 X 151.04	22854	**8.860**	545.5	23.9	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 21/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	14/08/2019	21/08/2019	151.97 X 150.22 X 149.74	22829	**8.411**	414.2	18.1	18.4
2	Culvert Concrete	M20	14/08/2019	21/08/2019	151.32 X 151.38 X 149.62	22906	**8.429**	433.9	18.9	
3	Culvert Concrete	M20	14/08/2019	21/08/2019	149.44 X 151.64 X 149.67	22662	**8.063**	412.9	18.2	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 11/09/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 16-08-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	14/08/2019	11/09/2019	149.03 X 151.05 X 149.01	22510	**8.906**	533.9	23.7	23.3
2	Culvert Concrete	M20	14/08/2019	11/09/2019	150.28 X 149.30 X 150.33	22436	**8.271**	515.7	23.0	
3	Culvert Concrete	M20	14/08/2019	11/09/2019	151.15 X 149.04 X 149.46	22527	**8.860**	519.3	23.1	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 21/08/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 16-08-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	14/08/2019	21/08/2019	151.22 X 151.72 X 149.51	22943	**8.411**	429.4	18.7	18.7
2	Culvert Concrete	M20	14/08/2019	21/08/2019	151.58 X 150.72 X 149.45	22847	**8.429**	429.6	18.8	
3	Culvert Concrete	M20	14/08/2019	21/08/2019	151.02 X 149.96 X 150.46	22647	**8.063**	417.5	18.4	

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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 11/09/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	16-08-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	14/08/2019	11/09/2019	151.36 X 150.54 X 150.12	22787	**8.906**	532.9	23.4	23.0
2	Culvert Concrete	M20	14/08/2019	11/09/2019	149.57 X 150.21 X 150.43	22466	**8.271**	497.7	22.2	
3	Culvert Concrete	M20	14/08/2019	11/09/2019	150.65 X 150.38 X 149.95	22654	**8.860**	534.6	23.6	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro
Sig.....
Date.....
BANGALORE

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****End of Report****

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